



OptiMair™ Vertical Laminar Flow Cabinet,
Model ACB-4E_



Enterprise® Laminar Flow Straddle Units,
Model EQU/06-ESUS



Airstream® Gen 3 Horizontal Laminar Flow
Cabinet, Model LHG-4AG-F_



Airstream® Gen 3 Horizontal Laminar Flow
Cabinet, Model LHS-4AG-F_



Airstream® Gen 3 Vertical Laminar Flow
Cabinet, Model LVG-4AG-S_



Airstream® Gen 3 Vertical Laminar Flow Cab-
inet, Model LVS-4AG-S_

Esco Laminar Flow Cabinets

The World's Quietest and Safest Choice for Sample Protection Needs



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Rocker Switches

- Easy-to-use switches
- Displays filter loading status
- Manually adjustable UV timer

Note: Rocker switch models are available in USA only



Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- Standby mode for more energy savings
- Programmable UV timer to extend the UV lamp lifespan



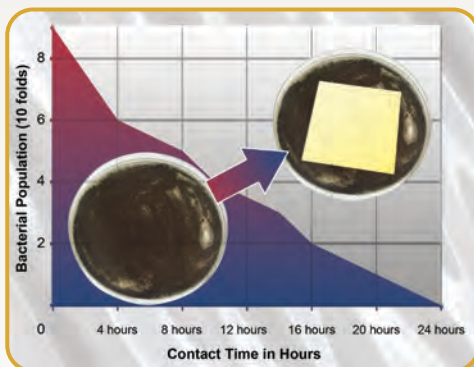
Ergonomic Control Panel Location

- Centered and angled down an easy reach & viewing



Work Top

- Spill-retaining work top designed with a recessed central area to contain accidental liquid spills



Isocide™ Antimicrobial Coating

- Silver-ion impregnated powder coat
- Inhibits the microbial growth to improve safety

Guide to Models														
1st Placeholder Product Line	2nd Placeholder Flow	3rd Placeholder Side Wall	4th Placeholder Width	5th Placeholder Internal Height	6th Placeholder Control	7th Placeholder Window	8th Placeholder Electrical							
Laminar Flow	L	Horizontal	H	Tempered Glass	G	3 feet	3	2 feet	A	Sentinel™ Gold	G	Fixed Sash	F	230 VAC, 50 / 60 Hz
				Stainless Steel	S	4 feet	4	2.5 feet	B	Rocker Switches	S			115 VAC, 50 / 60 Hz
						5 feet	5	3 feet	C					
						6 feet	6							
						8 feet	8							

Example Code: LHG-4BG-F8

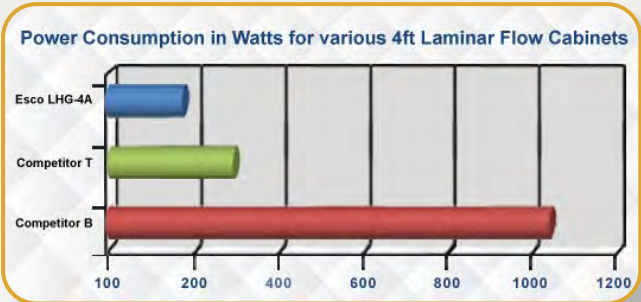
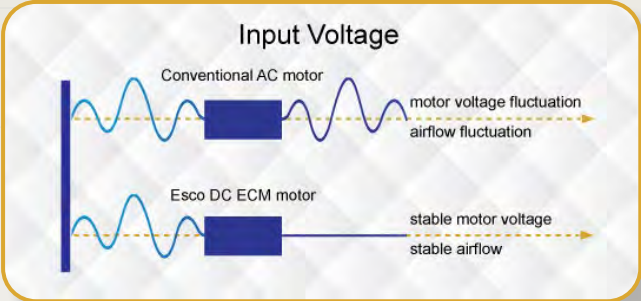
Specifications: Laminar flow cabinet, Horizontal Flow, Glass sided walls, 4 ft width, 2.5 ft internal height, Sentinel™ Gold microprocessor controller, Fixed window and 230 VAC, 50/60 Hz

Airflow Sensor

- Real-time airflow monitoring system
- Alerts the user if the airflow is insufficient

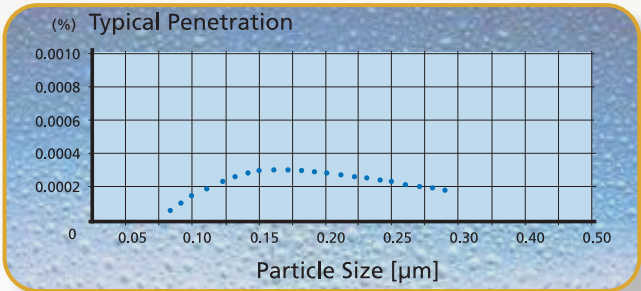
Energy-efficient DC ECM Blower

- Powered by latest generation DC ECM that is more efficient than legacy ECM and VFD motors
- 70% energy savings compared to AC motor
- Stable airflow despite building voltage fluctuations & filter loading
- Standby mode that provides ISO Class 5 work-zone



ULPA Filter

- 10x filtration efficiency than of HEPA filter, creates an ISO Class 3 work-zone instead of the industry-standard ISO Class 5
- 10x cleaner work-zone than cabinets with HEPA filter

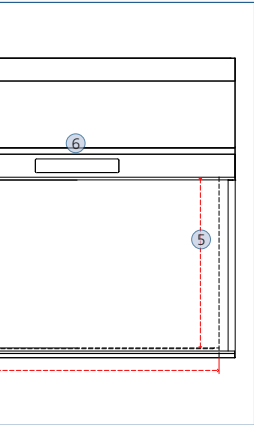


Quiet Operation

- Comfortable low noise emission at 55 dBA
**LHG-4B in an open field condition*
- Reduces fatigue and improves work concentration



Airstream® Gen 3 Horizontal Laminar Flow Cabinet, Model LHG-4AG-F_



	Cabinet Performance	Air Quality	Filtration	Electrical Safety
Standards Compliance	IEST-RP-CC002.2, Worldwide	ISO 14644.1, Class 3, Worldwide AS 1386 Class 1.5, Australia JIS B9920, Class 3, Japan	EN-1822 (H14), Europe IEST-RP-CC001.3, Worldwide IEST-RP-CC007, Worldwide IEST-RP-CC034.1, Worldwide	IEC61010-1, Worldwide EN 61010-1, Europe UL61010-1, USA CAN/CSA-22.2, No.61010-1



Rocker Switches

- Easy-to-use switches
- Displays filter loading status
- Manually adjustable UV timer

Note: Rocker switch models are available in USA only



Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- Standby mode for more energy-savings
- Programmable UV timer to extend the UV lamp lifespan



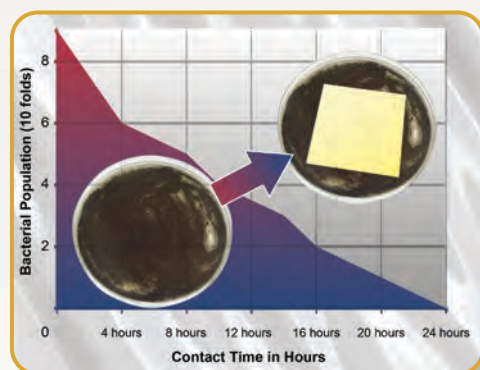
Ergonomic Control Panel Location

- Centered and angled down for an easy reach & viewing



Work Top

- Spill-retaining work top designed with a recessed central area to contain accidental liquid spills



Isocide™ Antimicrobial Coating

- Silver-ion impregnated powder coat
- Inhibits the microbial growth to improve safety



Airstream® Gen 3 Vertical Laminar Flow Cabinet, Model LVG-4AG-S_

Guide to Models

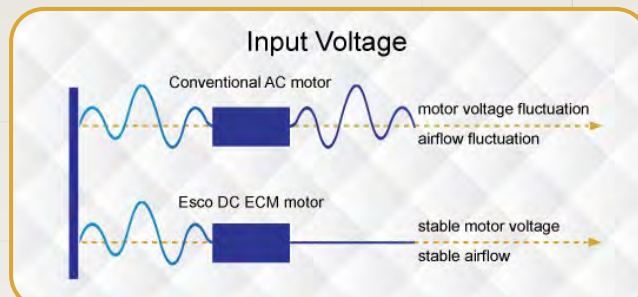
LV - -															
1st Placeholder Product Line		2nd Placeholder Flow		3rd Placeholder Side Wall		4th Placeholder Width		5th Placeholder Internal Height		6th Placeholder Control		7th Placeholder Window		8th Placeholder Electrical	
Laminar Flow	L	Vertical	V	Tempered Glass	G	3 feet	3	2.25 feet	A	Sentinel™ Gold	G	Fixed Sash	F	230 VAC, 50 / 60 Hz	8
				Stainless Steel	S	4 feet	4	3 feet	C	Rocker Switches	S	Sliding Sash	S	115 VAC, 50 / 60 Hz	9
						5 feet	5								
						6 feet	6								
						8 feet	8								

Airflow Sensor

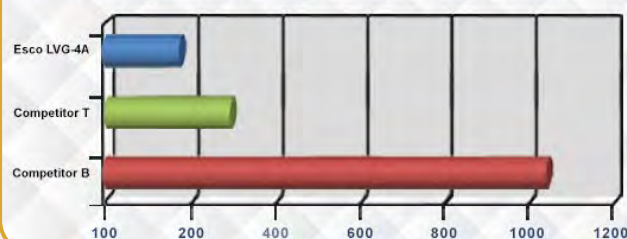
- Real-time airflow monitoring system
- Alerts the user if the airflow is insufficient

Energy-efficient DC ECM Blower

- Powered by latest generation DC ECM that is more efficient than legacy ECM and VFD motors
- 70% energy savings compared to AC motor
- Stable airflow despite building voltage fluctuations & filter loading
- Standby mode that provides ISO Class 5 work-zone

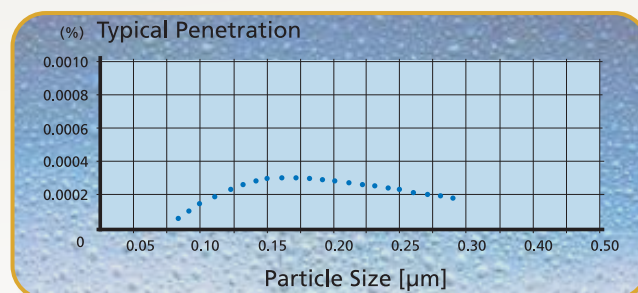


Power Consumption in Watts for various 4ft Laminar Flow Cabinets



ULPA Filter

- 10x filtration efficiency than of HEPA filter, creates an ISO Class 3 work-zone instead of industry-standard ISO Class 5
- 10x cleaner work-zone than cabinets with HEPA filter

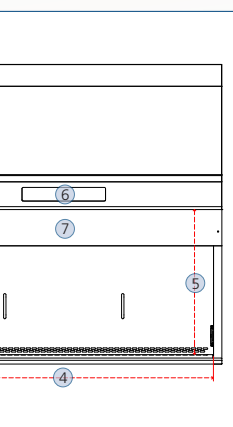


Sash Window Options

- Polycarbonate fixed sash
- Manual sliding sash made of UV-resistant tempered glass

Quiet Operation

- Comfortable low noise emission at 52 dBA
**LVG-4AG-F_ in an open field condition*
- Reduces fatigue and improves work concentration

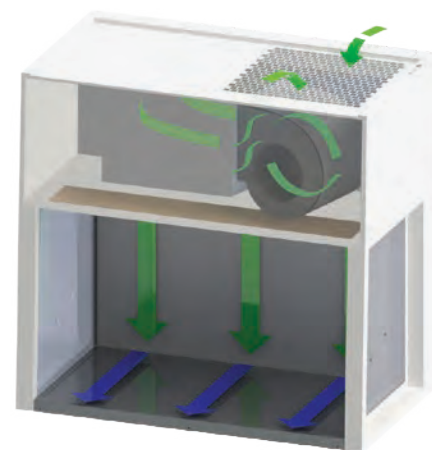


Standards Compliance	Cabinet Performance	Air Quality	Filtration	Electrical Safety
	IEST-RP-CC002.2, Worldwide	ISO 14644.1, Class 3, Worldwide AS 1386 Class 1.5, Australia JIS B9920, Class 3, Japan	EN-1822 (H14), Europe IEST-RP-CC001.3, Worldwide IEST-RP-CC007, Worldwide IEST-RP-CC034.1, Worldwide	IEC61010-1, Worldwide EN 61010-1, Europe UL61010-1, USA CAN/CSA-22.2, No.61010-1

Airstream® Horizontal Laminar Flow Stainless Steel Side Wall Version

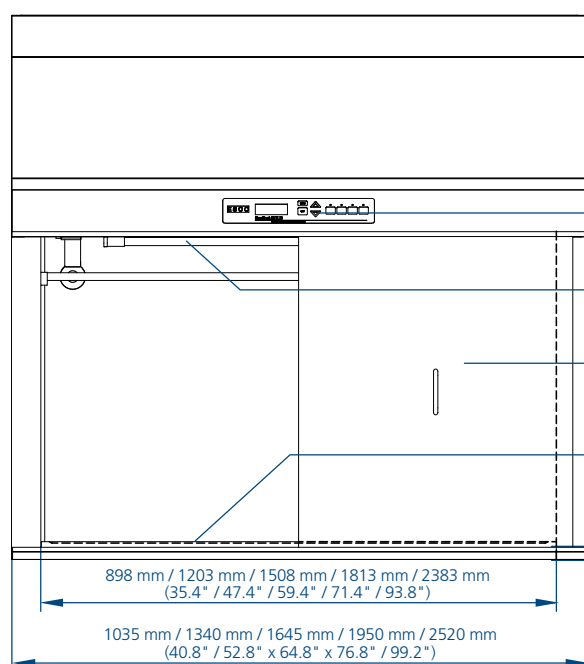


- Room air is drawn in from the top of the cabinet through a disposable pre-filter with 85% arrestance, trapping larger particles and prolonging the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter. The result is a stream of clean laminar air within the work-zone, diluting and flushing contaminants present in the interior. The purified air travels in a horizontal, unidirectional stream towards the open front of the cabinet.
- A nominal filter face velocity of 0.45 m/s or 90 fpm ensures that there is a sufficient number of air changes within the enclosed area of the cabinet to maintain the cleanliness.



■ ULPA-filtered air
■ Room air / Inflow air

Airstream® Horizontal Laminar Flow Engineering Drawing

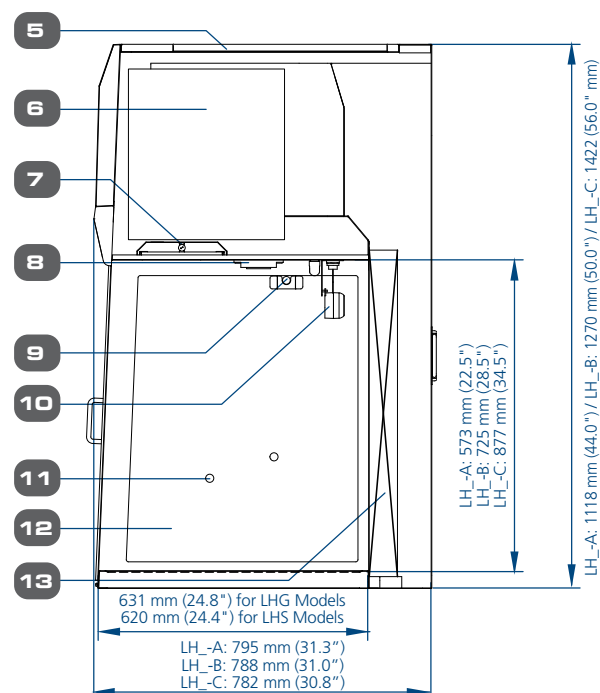


1. Esco Sentinel™ Gold Microprocessor Controller / Simple Switches Control System
2. UV Light Retrofit Kit Provision

3. (Optional) Front Cover
4. Spill-retaining Stainless Steel Work Top
5. Pre-filter
6. DC ECM Blower

7. Fluorescent Lamp
8. Electrical Outlet Provision (maximum of 2)
9. IV Bar Retrofit Kit Provision
10. Air Flow Sensor

11. Service Fixture Retrofit Kit Provision (2 on each side)
12. Tempered Glass Side Walls (for LHG Variant)
Stainless Steel Side Walls (for LHS Variant)
13. ULPA / H14 Filter

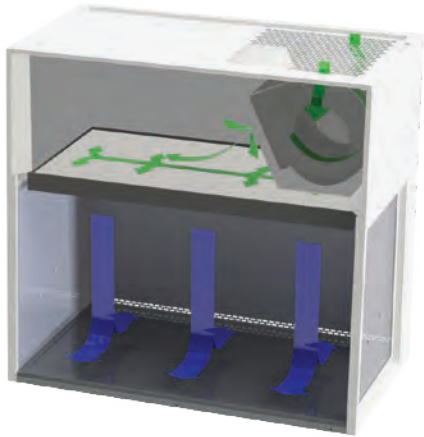


Esco Horizontal and Vertical Laminar Flow Cabinet Accessories											
Model		3 feet Width		4 feet Width		5 feet Width		6 feet Width		8 feet Width	
UV Lamp		UV-15A-L	5170251	UV-30A-L 5170255						UV-30A-L *2	
Electrical Outlet		EO-									
IV Bar Horizontal Flow		IV-890	5170608	IV-1195	5170609	IV-1500	5170610	IV-1805	5170611	IV-2375	5170662
IV Bar Vertical Flow		IV-960	5170603	IV-1265	5170604	IV-1570	5170605	IV-1875	5170606	IV-2445	5170607
PVC Arm Rest		ME-W-REST 5170127									
Height-adjustable Lab Chair (Blue)		ME-LD-AR360 1150006									
Ergonomic Foot Rest		FT-REST 5170073									
Support Stand Telescoping with Castors (28" to 34")		STC-3A0	5130055	STC-4A0	5130056	STC-5A0	5130057	STC-6A0	5130058	STC-8A0 Gen2	5131146
Support Stand Telescoping with Leveling Feet (28" to 34")		STL-3A0	5130050	STL-4A0	5130051	STL-5A0	5130052	STL-6A0	5130053	STL-8A0 Gen2	5131150
Support Stand with Leveling Feet (28")		SAL-3A0 Gen2	5130170	SAL-4A0 Gen2	5130134	SAL-5A0 Gen2	5130171	SAL-6A0 Gen2	5130172	SAL-8A0 Gen2	5131124
Support Stand with Leveling Feet (34")		SAL-3B0 Gen2	5130174	SAL-4B0 Gen2	5130175	SAL-5B0 Gen2	5130176	SAL-6B0 Gen2	5130177	SAL-8B0 Gen2	5131125
Pre-filter	Horizontal	PF-4	5090003	PF-2 (2 pcs)	5090001	PF-3 and PF-4	5090002 and 5090003	PF-2 (3 pcs)	5090001	PF-2 and PF-4 (2 pcs)	5090001 and 5090003
	Vertical							PF-4 (2 pcs)	5090003		

Airstream® Vertical Laminar Flow
Stainless Steel Side Wall Version

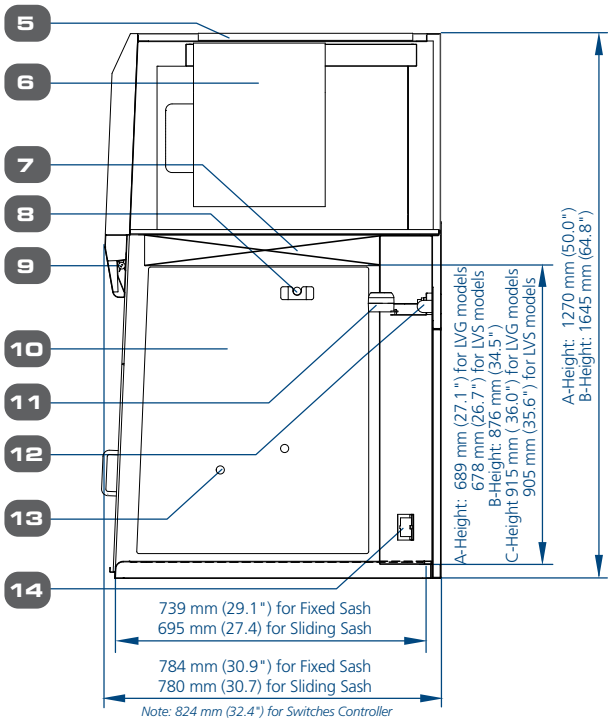
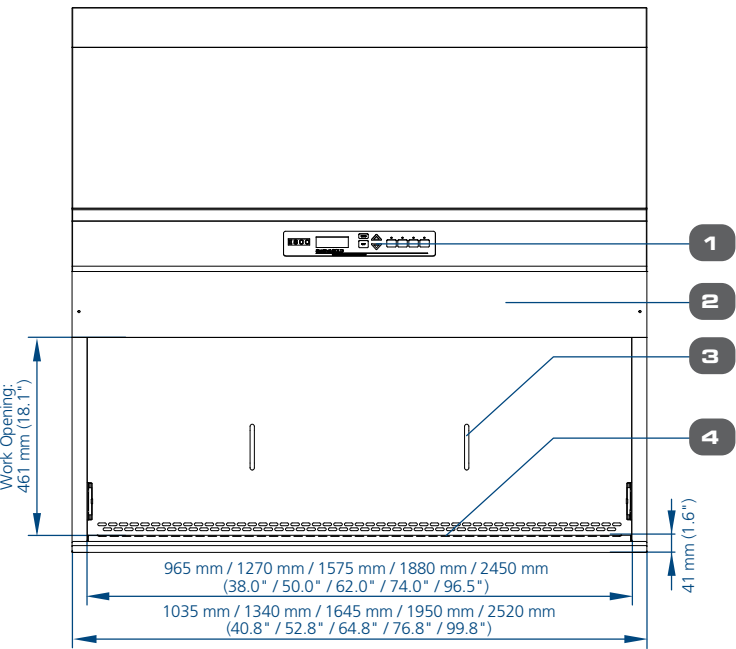


- Room air drawn in from the top of the cabinet through a disposable pre-filter with 85% arrestance, trapping larger particles and prolonging the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter. The result is a stream of clean laminar air with the work-zone, diluting and flushing contaminants present in the interior. The purified air travels in a vertical, unidirectional stream towards the open front and back of the cabinet.
- A nominal filter face velocity of 0.45 m/s or 90 fpm ensures that there is a sufficient number of air changes within the enclosed area of the clean bench to maintain cleanliness.



ULPA-filtered air
Room air / Inflow air

Airstream® Vertical Laminar Flow Engineering Drawing



1. Esco Sentinel™ Gold Microprocessor Control System / Simple Switches Control System

2. Fixed Sash (LV_-F variant)
(Optional) Manual Sliding Sash (LV_-S variant)

3. Optional Front Cover

4. Stainless Steel Work Top

5. Pre-filter
6. DC ECM Blower (Self-compensating and lower noise)

7. ULPA filter

8. IV Bar Retrofit Kit Provision

9. Fluorescent Lamp

10. Tempered Glass Side Walls (for LVG Variant)
Stainless Steel Side Walls (for LVS Variant)
11. Airflow Sensor

12. UV Lamp

13. Service Fixture Retrofit Kit Provision (2 holes on each side)

14. Electrical Outlet Retrofit Kit provision (1 outlet on each side)

Esco Horizontal and Vertical Laminar Flow Cabinets Front Cover					
	3 feet	4 feet	5 feet	6 feet	8 feet
LHG / LHS	FC-LHG / LHS-3A 5170601	FC-LHG / LHS-4A 5170602	FC-LHG / LHS-5A 5170585	FC-LHG / LHS-6A 5170586	
	FC-LHG / LHS-3B 5170587	FC-LHG / LHS-4B 5170588	FC-LHG / LHS-5B 5170589	FC-LHG / LHS-6B 5170590	
	FC-LHG / LHS-3C 5170627	FC-LHG / LHS-4C 5170591		FC-LHG / LHS-6C 5170592	FC-LHG / LHS-8C 5170593
LVG / LVS*	FC-LVG / LVS-3A 5170595	FC-LVG / LVS-4A 5170584	FC-LVG / LVS-5A 5170596	FC-LVG / LVS-6A 5170597	
		FC-LVG / LVS-4C 5170598	FC-LVG / LVS-5C 5170061	FC-LVG / LVS-6C 5170599	FC-LVG / LVS-8C 5170600

* For fixed sash models only (LVS_-F and LVG_-F)

General Specifications, Airstream® Vertical Laminar Flow Cabinet, A-Height (Interior Height: 2.25 ft / 0.7 m) with Sentinel™ Gold Microprocessor Control System

Stainless Steel Sides		LVS-3AG-F8 2120381	LVS-4AG-F8 2120382	LVS-5AG-F8 2120383	LVS-6AG-F8 2120384
		LVS-3AG-S8 2120796	LVS-4AG-S8 2120759	LVS-5AG-S8 2120766	LVS-6AG-S8 2120760
		LVS-3AG-F9 2120443	LVS-4AG-F9 2120445	LVS-5AG-F9 2120447	LVS-6AG-F9 2120449
		LVS-3AG-S9 2120797	LVS-4AG-S9 2120762	LVS-5AG-S9 2120767	LVS-6AG-S9 2120764
Glass Sides		LVG-3AG-F8 2120374	LVG-4AG-F8 2120369	LVG-5AG-F8 2120375	LVG-6AG-F8 2120407
		LVG-3AG-S8 2120792	LVG-4AG-S8 2120701	LVG-5AG-S8 2120755	LVG-6AG-S8 2120703
		LVG-3AG-F9 2120435	LVG-4AG-F9 2120437	LVG-5AG-F9 2120439	LVG-6AG-F9 2120441
		LVG-3AG-S9 2120795	LVG-4AG-S9 2120761	LVG-5AG-S9 2120768	LVG-6AG-S9 2120763
Nominal Size		0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions without Base Stand (W x D x H)	Fixed Sash Models	1035 x 784 x 1270 mm (40.8" x 30.9" x 50.0")	1340 x 784 x 1270 mm (52.8" x 30.9" x 50.0")	1645 x 784 x 1270 mm (64.8" x 30.9" x 50.0")	1950 x 784 x 1270 mm (76.8" x 30.9" x 50.0")
	Sliding Sash Models	1035 x 780 x 1270 mm (40.8" x 30.7" x 50.0")	1340 x 780 x 1270 mm (52.8" x 30.7" x 50.0")	1645 x 780 x 1270 mm (64.8" x 30.7" x 50.0)	1950 x 780 x 1270 mm (76.8" x 30.7" x 50.0")
Internal Work Area, Dimensions (W x D x H)	LVG Models (Fixed Sash)	965 x 739 x 689 mm (38.0" x 29.1" x 27.1")	1270 x 739 x 689 mm (50.0" x 29.1" x 27.1")	1575 x 739 x 689 mm (62.0" x 29.1" x 27.1")	1880 x 739 x 689 mm (74.0" x 29.1" x 27.1")
	LVG Models (Sliding Sash)	965 x 695 x 689 mm (38.0" x 27.0" x 27.1")	1270 x 695 x 689 mm (50.0" x 27.0" x 27.1")	1575 x 695 x 689 mm (62.0" x 27.3" x 27.1")	1880 x 695 x 689 mm (74.0" x 27" x 27.1")
	LVS Models (Fixed Sash)	965 x 739 x 678 mm (38.0" x 29.1" x 26.7")	1270 x 739 x 678 mm (50.0" x 29.1" x 26.7")	1575 x 739 x 678 mm (62.0" x 29.1" x 26.7")	1880 x 739 x 678 mm (74.0" x 29.1" x 26.7")
	LVS Models (Sliding Sash)	965 x 695 x 678 mm (38.0" x 27.0" x 26.7")	1270 x 695 x 678 mm (50.0" x 27.0" x 26.7")	1575 x 695 x 678 mm (62.0" x 27.3" x 26.7")	1880 x 695 x 678 mm (74.0" x 27" x 26.7")
Internal Work Area, Space		0.6 m² (6.5 ft²)	0.8 m² (8.6 ft²)	1.0 m² (10.7 ft²)	1.3 m² (14.0 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1117 m³/hr (657 cfm)	1471 m³/hr (866 cfm)	1824 m³/hr (1074 cfm)	2177 m³/hr (1281 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		51.6 dBA	52.4 dBA	55.6 dBA	57.6 dBA
Fluorescent Lamp Intensity at Zero Ambient		1000 Lux (93 foot candles)			
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish			
	Side Walls	LVS Models: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish			
		LVG Models: UV Resistant tempered glass, 5 mm (0.2"), colorless and transparent			
	Sash Window	Fixed Sash: 5 mm (0.2") UV Resistant Polycarbonate Sash with 461 mm (18.1") opening			
		Manual Sliding Sash: 5 mm (0.2") UV Resistant Tempered Glass with counter-balance system and ergonomic handle			
Electrical Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	7.3 A	7.5 A	7.8 A	8.5 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	129	151	199	258
	Heat Rejected, BTU per Hour	440	515	679	880
Electrical Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	12 A	12.5 A	13.3 A	13.5 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	132	155	204	264
	Heat Rejected, BTU per Hour	450	529	696	908
Net Weight**		135 Kg (298 lbs)	158 Kg (348 lbs)	199 Kg (438 lbs)	208 Kg (459 lbs)
Shipping Weight**		167 Kg (368 lbs)	202 Kg (445 lbs)	256 Kg (564 lbs)	273 Kg (602 lbs)
Shipping Dimensions, Maximum (W x D x H)**		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum**		1.6 m³ (56.6 ft³)	2.0 m³ (70.6 ft³)	2.5 m³ (88.2 ft³)	3.3 m³ (116.5 ft³)

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Cabinet only, excludes optional stand.

General Specifications, Airstream® Horizontal Laminar Flow Cabinet, A-Height (Interior Height: 2 ft / 0.6 m) with Sentinel™ Gold Microprocessor Control System					
Stainless Steel Sides		LHS-3AG-F8 2120377	LHS-4AG-F8 2120378	LHS-5AG-F8 2120379	LHS-6AG-F8 2120380
		LHS-3AG-F9 2120425	LHS-4AG-F9 2120427	LHS-5AG-F9 2120429	LHS-6AG-F9 2120431
Glass Sides		LHG-3AG-F8 2120387	LHG-4AG-F8 2120368	LHG-5AG-F8 2120372	LHG-6AG-F8 2120373
		LHG-3AG-F9 2120417	LHG-4AG-F9 2120419	LHG-5AG-F9 2120421	LHG-6AG-F9 2120423
Nominal Size		0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions (W x D x H)	Without Base Stand	1035 x 795 x 1118 mm (40.8" x 31.3" x 44.0")	1340 x 795 x 1118 mm (52.8" x 31.3" x 44.0")	1645 x 795 x 1118 mm (64.8" x 31.3" x 44.0")	1955 x 795 x 1118 mm (76.8" x 31.3" x 44.0")
Internal Work Area, Dimensions (W x D x H)	LHG Models	898 x 631 x 573 mm (35.4" x 24.8" x 22.5")	1203 x 631 x 573 mm (47.4" x 24.8" x 22.5")	1508 x 631 x 573 mm (59.4" x 24.8" x 22.5")	1813 x 631 x 573 mm (71.4" x 24.8" x 22.5")
	LHS Models	898 x 620 x 573 mm (35.4" x 24.4" x 22.5")	1203 x 620 x 573 mm (47.4" x 24.4" x 22.5")	1508 x 620 x 573 mm (59.4" x 24.4" x 22.5")	1813 x 620 x 573 mm (71.4" x 24.4" x 22.5")
Internal Work Area, Space		0.5 m² (5.4 ft²)	0.7 m² (7.5 ft²)	0.9 m² (9.6 ft²)	1.0 m² (10.8 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		834 m³/hr (491 cfm)	1117 m³/hr (657 cfm)	1400 m³/hr (824 cfm)	1683 m³/hr (911 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		53.2 dBA	55.8 dBA	58.4 dBA	60.0 dBA
Fluorescent Lamp Intensity at Zero Ambient		1045 Lux (97 foot candles)	1139 Lux (106 foot candles)	984 Lux (91 foot candles)	1221 Lux (113 foot candles)
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish			
	Side Walls	LHS Models: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish LHG Models: UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
Electrical Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	7 A	7.3 A	7.6 A	8 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	140	171	211	249
	Heat Rejected, BTU per Hour	478	583	720	850
Electrical Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	11.3 A	11.4 A	11.4 A	11.5 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	144	175	216	255
	Heat Rejected, BTU per Hour	491	597	737	870
Net Weight**		100 Kg (220 lbs)	145 Kg (320 lbs)	167 Kg (368 lbs)	212 Kg (467 lbs)
Shipping Weight**		132 Kg (291 lbs)	200 Kg (440 lbs)	224 Kg (494 lbs)	277 Kg (611 lbs)
Shipping Dimensions, Maximum (W x D x H)**		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum**		1.6 m³ (56.6 ft³)	2.0 m³ (70.6 ft³)	2.5 m³ (88.2 ft³)	3.3 m³ (116.5 ft³)

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Cabinet only, excludes optional stand.

General Specifications, Airstream® Horizontal Laminar Flow Cabinet, B-Height (Interior Height: 2 ½ ft / 0.8 m) with Simple Switches Control System

Glass Side, Simple Switches		LHG-3BS-F9 2120705	LHG-4BS-F9 2120716	LHG-5BS-F9 2120717	LHG-6BS-F9 2120718
Stainless Steel Side, Simple Switches		LHS-3BS-F9 2120661	LHS-4BS-F9 2120663	LHS-5BS-F9 2120665	LHS-6BS-F9 2120667
Nominal Size		0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions (W x D x H)	Without Base Stand	1035 x 788 x 1270 mm (40.8" x 31.0" x 50.0")	1340 x 788 x 1270 mm (52.8" x 31.0" x 50.0")	1645 x 788 x 1270 mm (64.8" x 31.0" x 50.0")	1950 x 788 x 1270 mm (76.8" x 31.0" x 50.0")
Internal Work Area, Dimensions (W x D x H)*		898 x 620 x 725 mm (35.4" x 24.4" x 28.5")	1203 x 620 x 725 mm (47.4" x 24.4" x 28.5")	1508 x 620 x 725 mm (59.4" x 24.4" x 28.5")	1813 x 620 x 725 mm (71.4" x 24.4" x 28.5")
Internal Work Area, Space		0.5 m² (5.4 ft²)	0.7 m² (7.5 ft²)	0.9 m² (9.6 ft²)	1.0 m² (10.8 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1055 m³/hr (621 cfm)	1413 m³/hr (832 cfm)	1771 m³/hr (1042 cfm)	2129 m³/hr (1253 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		52.8 dBA	55.4 dBA	58.0 dBA	59.6 dBA
Fluorescent Lamp Intensity at Zero Ambient		1279 Lux (119 foot candles)	1394 Lux (130 foot candles)	1204 Lux (112 foot candles)	1494 Lux (139 foot candles)
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish.			
	LHG Side Walls	UV-absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
	LHS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	12.3 A	12.4 A	12.4 A	12.5 A and 6.5 A (2 Power Inlet)
	Optional Outlets (FLA)	6 A			
	Cabinet Nominal Power (W)	154	188	273	343
	Heat Rejected, BTU per Hour	525	641	932	1170
Net Weight***		108 Kg (238 lbs)	156 Kg (344 lbs)	180 Kg (397 lbs)	228 Kg (503 lbs)
Shipping Weight***		140 Kg (308 lbs)	211 Kg (465 lbs)	237 Kg (522 lbs)	293 Kg (646 lbs)
Shipping Dimensions, Maximum (W x D x H)***		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum***		1.6 m³ (56.6 ft³)	2.0 m³ (70.6 ft³)	2.5 m³ (87 ft³)	3.3 m³ (118.6 ft³)

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Additional voltages may be available; contact Esco for ordering information.

***Cabinet only; excludes optional stand.

General Specifications, Airstream® Horizontal Laminar Flow Cabinet, C-Height (Interior Height: 3 ft / 0.9 m) with Simple Switches Control System				
Stainless Steel Side, Simple Switches		LHS-4CS-F9 2120675	LHS-6CS-F9 2120679	LHS-8CS-F9 2120681
Nominal Size		1.2 meter (4')	1.8 meter (6')	2.4 meter (8')
External Dimensions (W x D x H)	Without Base Stand	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	2520 x 782 x 1422 mm (99.2" x 30.8" x 56.0")
Internal Work Area, Dimensions (W x D x H)*		1203 x 620 x 877 mm (47.4" x 24.4" x 34.5")	1813 x 620 x 877 mm (71.4" x 24.4" x 34.5")	2383 x 620 x 877 mm (93.8" x 24.4" x 34.5")
Internal Work Area, Space		0.7 m² (7.5 ft²)	1.0 m² (10.8 ft²)	1.4 m² (15.0 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial set point		
Air Volume		1709 m³/hr (1006 cfm)	2576 m³/hr (1516 cfm)	3385 m³/hr (1992 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm		
Sound Emission per IEST-RP-CC002.2*		56.4 dBA	59.4 dBA	62.3 dBA
Fluorescent Lamp Intensity At Zero Ambient		1304 Lux (121 foot candles)	1001 Lux (93 foot candles)	1136 Lux (106 foot candles)
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.		
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish.		
	LHS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.		
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	12.3 A	12.5 A and 6.5 A (2 Power Inlet)	13 A and 7 A (2 Power Inlet)
	Optional Outlets (FLA)	6 A		
	Cabinet Nominal Power (W)	217	400	432
	Heat Rejected, BTU per Hour	740	1365	1481
Net Weight***		167 Kg (368 lbs)	236 Kg (520 lbs)	317 Kg (699 lbs)
Shipping Weight***		222 Kg (489 lbs)	301 Kg (663 lbs)	397 Kg (875 lbs)
Shipping Dimensions, Maximum (W x D x H)***		1400 x 900 x 1590 mm (55" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")	2720 x 950 x 1590 mm (107" x 37" x 62")
Shipping Volume, Maximum***		2.0 m³ (70.6 ft³)	3.3 m³ (118.6 ft³)	4.1 m³ (144.8 ft³)

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Additional voltages may be available; contact Esco for ordering information.

***Cabinet only; excludes optional stand.

General Specifications, Airstream® Horizontal Laminar Flow Cabinet, B-Height (Interior Height: 2.5 ft / 0.8 m) with Sentinel™ Gold Microprocessor Control System					
Stainless Steel Sides		LHS-3BG-F8 2120463	LHS-4BG-F8 2120465	LHS-5BG-F8 2120467	LHS-6BG-F8 2120469
		LHS-3BG-F9 2120503	LHS-4BG-F9 2120505	LHS-5BG-F9 2120507	LHS-6BG-F9 2120509
Glass Sides		LHG-3BG-F8 2120453	LHG-4BG-F8 2120455	LHG-5BG-F8 2120457	LHG-6BG-F8 2120459
		LHG-3BG-F9 2120493	LHG-4BG-F9 2120495	LHG-5BG-F9 2120497	LHG-6BG-F9 2120499
Nominal Size		0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions (W x D x H)	Without Base Stand	1035 x 788 x 1270 mm (40.8" x 31.0" x 50.0")	1340 x 788 x 1270 mm (52.8" x 31.0" x 50.0")	1645 x 788 x 1270 mm (64.8" x 31.0" x 50.0")	1950 x 788 x 1270 mm (76.8" x 31.0" x 50.0")
Internal Work Area, Dimensions (W x D x H)	LHG Models	898 x 631 x 725 mm (35.4" x 24.8" x 28.5")	1203 x 631 x 725 mm (47.4" x 24.8" x 28.5")	1508 x 631 x 725 mm (59.4" x 24.8" x 28.5")	1813 x 631 x 725 mm (71.4" x 24.8" x 28.5")
	LHS Models	898 x 620 x 725 mm (35.4" x 24.4" x 28.5")	1203 x 620 x 725 mm (47.4" x 24.4" x 28.5")	1508 x 620 x 725 mm (59.4" x 24.4" x 28.5")	1813 x 620 x 725 mm (71.4" x 24.4" x 28.5")
Internal Work Area, Space		0.5 m² (5.4 ft²)	0.7 m² (7.5 ft²)	0.9 m² (9.6 ft²)	1.0 m² (10.8 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1055 m³/hr (621 cfm)	1413 m³/hr (832 cfm)	1771 m³/hr (1042 cfm)	2129 m³/hr (1253 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		52.8 dBA	55.4 dBA	58.0 dBA	59.6 dBA
Fluorescent Lamp Intensity at Zero Ambient		1279 Lux (119 foot candles)	1394 Lux (130 foot candles)	1204 Lux (112 foot candles)	1494 Lux (139 foot candles)
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyster powder-coated finish			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish			
	Side Walls	LHS Models: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish LHG Models: UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
Electrical Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	7 A	7.3 A	7.6 A	8 A and 3 A (2 Power Inlet)
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	160	207	255	302
	Heat Rejected, BTU per Hour	546	702	870	1030
Electrical Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	11.3 A	11.4 A	11.4 A	11.5 A and 6.5 A (2 Power Inlet)
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	163	211	260	308
	Heat Rejected, BTU per Hour	556	720	887	1051
Net Weight**		108 Kg (238 lbs)	156 Kg (344 lbs)	180 Kg (397 lbs)	228 Kg (503 lbs)
Shipping Weight**		140 Kg (308 lbs)	200 Kg (441 lbs)	237 Kg (522 lbs)	293 Kg (646 lbs)
Shipping Dimensions, Maximum (W x D x H)**		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum**		1.6 m³ (56.6 ft³)	2.0 m³ (70.6 ft³)	2.5 m³ (88.2 ft³)	3.3 m³ (116.5 ft³)

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Cabinet only, excludes optional stand.

General Specifications, Airstream® Horizontal and Vertical Laminar Flow Cabinet, C-Height (Interior Height: 3 ft / 0.9 m) with Sentinel™ Gold Microprocessor Control System											
Model	Nominal Size	External Dimension (W x D x H)	Internal Dimension (W x D x H)	Sound Emission per IEST-RP-CC002.2*	Fluorescent Lamp Intensity at Zero Ambient	Cabinet Full Load Amps (FLA)	Cabinet Nominal Power (W)	Heat Rejected, BTU per Hour	Shipping Weight**	Shipping Dimensions, Maximum (W x D x H)**	Shipping Volume, Maximum**
VERTICAL LAMINAR FLOW (Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase)											
LVS-4CG-F8 2120565	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 905 mm (50.0" x 29.1" x 35.6")	52.5 dBA	904 Lux (84 fc)	7.5 A	213	727	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVS-6CG-F8 2120569	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 905 mm (74.0" x 29.1" x 35.6")	53.2 dBA	1062 Lux (99 fc)	8.5 A	392	1337	330 Kg (661 lbs)	2070 x 900 x 1750 mm (81.5" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
LVS-8CG-F8 2120686	8 ft (2.4 m)	2520 x 774 x 1645 mm (99.2" x 30.5" x 64.8")	2450 x 739 x 905 mm (96.5" x 29.1" x 35.6")	59.8 dBA	1100 Lux (102 fc)	8.5 A and 3.5 A	422	1446	455 Kg (1003 lbs)	2720 x 950 x 1750 mm (107" x 37.4" x 68.9")	4.5 m³ (158.9 ft³)
LVG-4CG-F8 2120555	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 915 mm (50.0" x 29.1" x 36.0")	52.5 dBA	904 Lux (84 fc)	7.5 A	213	727	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVG-6CG-F8 2120559	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 915 mm (74.0" x 29.1" x 36.0")	53.2 dBA	1062 Lux (99 fc)	8.5 A	392	1337	330 Kg (661 lbs)	2070 x 900 x 1750 mm (81.5" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
VERTICAL LAMINAR FLOW (Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase)											
LVS-4CG-F9 2120605	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 905 mm (50.0" x 29.1" x 35.6")	52.5 dBA	904 Lux (84 fc)	11.5 A	217	741	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVS-6CG-F9 2120609	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 905 mm (74.0" x 29.1" x 35.6")	53.2 dBA	1062 Lux (99 fc)	13.5 A	400	1365	330 Kg (661 lbs)	2070 x 900 x 1750 mm (82" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
LVS-8CG-F9 2120687	8 ft (2.4 m)	2520 x 774 x 1645 mm (99.2" x 30.5" x 64.8")	2450 x 739 x 905 mm (96.5" x 29.1" x 35.6")	59.8 dBA	1100 Lux (102 fc)	14 A and 8A	434	1481	455 Kg (1003 lbs)	2720 x 950 x 1750 mm (107" x 37.4" x 68.9")	4.5 m³ (158.9 ft³)
LVG-4CG-F9 2120595	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 915 mm (50.0" x 29.1" x 36.0")	52.5 dBA	904 Lux (84 fc)	11.5 A	217	741	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVG-6CG-F9 2120599	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 915 mm (74.0" x 29.1" x 36.0")	53.2 dBA	1062 Lux (99 fc)	13.5 A	400	1365	330 Kg (661 lbs)	2070 x 900 x 1750 mm (81.5" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
HORIZONTAL LAMINAR FLOW (Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase)											
LHS-4CG-F8 2120545	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 620 x 877 mm (47.4" x 24.4" x 34.5")	56.4 dBA	934 Lux (87 fc)	7.3 A	246	840	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 62.5")	2.0 m³ (70.6 ft³)
LHS-6CG-F8 2120549	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 620 x 877 mm (71.4" x 24.4" x 34.5")	59.4 dBA	1001 Lux (93 fc)	8 A and 3 A	359	1225	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
LHS-8CG-F8 2120704	8 ft (2.4 m)	2520 x 782 x 1422 mm (99.2" x 30.8" x 56.0")	2383 x 620 x 877 mm (93.8" x 24.4" x 34.5")	62.3 dBA	1136 Lux (106 fc)	8.3 A and 3.3 A	388	1324	397 Kg (875 lbs)	2720 x 950 x 1590 mm (107.0" x 37.4" x 62.5")	4.1 m³ (144.8 ft³)
LHG-3CG-F8 2120533	3 ft (0.9 m)	1035 x 782 x 1422 mm (40.8" x 30.8" x 56.0")	898 x 631 x 877 mm (35.4" x 24.8" x 34.5")	54.2 dBA	1195 Lux (111 fc)	7 A	190	648	147 Kg (324 lbs)	1120 x 900 x 1590 mm (44" x 35.4" x 62.5")	1.6 m³ (56.5 ft³)
LHG-4CG-F8 2120535	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 631 x 877 mm (47.4" x 24.8" x 34.5")	56.4 dBA	934 Lux (87 fc)	7.3 A	246	840	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 62.5")	2.0 m³ (70.6 ft³)
LHG-6CG-F8 2120539	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 631 x 877 mm (71.4" x 24.8" x 34.5")	59.4 dBA	1001 Lux (93 fc)	8 A and 3 A	359	1225	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
HORIZONTAL LAMINAR FLOW (Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase)											
LHS-4CG-F9 2120585	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 620 x 877 mm (47.4" x 24.4" x 34.5")	56.4 dBA	934 Lux (87 fc)	11.4 A	250	853	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 68.9")	2.0 m³ (70.6 ft³)
LHS-6CG-F9 2120589	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 620 x 877 mm (71.4" x 24.4" x 34.5")	59.4 dBA	1001 Lux (93 fc)	11.5 A and 6.5 A	365	1245	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
LHS-8CG-F9 2120719	8 ft (2.4 m)	2520 x 782 x 1422 mm (99.2" x 30.8" x 56.0")	2383 x 620 x 877 mm (93.8" x 24.4" x 34.5")	62.3 dBA	1136 Lux (106 fc)	12 A and 6 A	394	1344	397 Kg (875 lbs)	2720 x 950 x 1590 mm (107.0" x 37.4" x 62.5")	4.1 m³ (144.8 ft³)
LHG-3CG-F9 2120573	3 ft (0.9 m)	1035 x 782 x 1422 mm (40.8" x 30.8" x 56.0")	898 x 631 x 877 mm (35.4" x 24.8" x 34.5")	54.2 dBA	1195 Lux (111 fc)	11.3 A	193	659	147 Kg (324 lbs)	1120 x 900 x 1590 mm (44" x 35.4" x 62.5")	1.6 m³ (56.5 ft³)
LHG-4CG-F9 2120575	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 631 x 877 mm (47.4" x 24.8" x 34.5")	56.4 dBA	934 Lux (87 fc)	11.4 A	250	853	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 62.5")	2.0 m³ (70.6 ft³)
LHG-6CG-F9 2120579	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 631 x 877 mm (71.4" x 24.8" x 34.5")	59.4 dBA	1001 Lux (93 fc)	11.5 A and 6.5 A	365	1245	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
SPECIFICATIONS AVAILABLE FOR ALL MODELS AND SIZES											
Cabinet Construction		Main Body	1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish								
		Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish								
		Side Walls	LVG-LHG: UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent								
			LVS-LHS: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish								
Average Airflow Velocity			0.45 m/s (90 fpm) at initial set point								
ULPA Filter Typical Efficiency			> 99.999% at particle size between 0.1 to 0.3 µm								
Electrical			Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase								
			Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase								

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Cabinet only, excludes optional stand.

General Specifications, Airstream® Vertical Laminar Flow Cabinet, A-Height (Interior Height: 2 ¼ ft / 0.7 m) with Simple Switches Control System					
Glass Side, Simple Switches		LVS-3AS-F9 2120706	LVS-4AS-F9 2120707	LVS-5AS-F9 2120708	LVS-6AS-F9 2120709
Stainless Steel Side, Simple Switches		LVG-3AS-F9 2120712	LVG-4AS-F9 2120713	LVG-5AS-F9 2120714	LVG-6AS-F9 2120715
Nominal Size		0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions (W x D x H)	Without Base Stand	1035 x 824 x 1270 mm (40.8" x 32.4" x 50.0")	1340 x 824 x 1270 mm (52.8" x 32.4" x 50.0")	1645 x 824 x 1270 mm (64.8" x 32.4" x 50.0")	1950 x 824 x 1270 mm (76.8" x 32.4" x 50.0")
Internal Work Area, Dimensions (W x D x H)*	LVG Models	965 x 739 x 689 mm (38.0" x 29.1" x 27.1")	1270 x 739 x 689 mm (50.0" x 29.1" x 27.1")	1575 x 739 x 689 mm (62.0" x 29.1" x 27.1")	1880 x 739 x 689 mm (74.0" x 29.1" x 27.1")
	LVS Models	965 x 739 x 678 mm (38.0" x 29.1" x 26.7")	1270 x 739 x 678 mm (50.0" x 29.1" x 26.7")	1575 x 739 x 678 mm (62.0" x 29.1" x 26.7")	1880 x 739 x 678 mm (74.0" x 29.1" x 26.7")
Internal Work Area, Space		0.6 m ² (6.5 ft ²)	0.8 m ² (8.6 ft ²)	1.0 m ² (10.7 ft ²)	1.3 m ² (14.0 ft ²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1117 m ³ /hr (657 cfm)	1471 m ³ /hr (866 cfm)	1824 m ³ /hr (1074 cfm)	2177 m ³ /hr (1281 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		51.6 dBA	52.4 dBA	55.6 dBA	57.6 dBA
Fluorescent Lamp Intensity at Zero Ambient		980 Lux (94 foot candles)	904 Lux (84 foot candles)	894 Lux (83 foot candles)	1062 Lux (99 foot candles)
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish.			
	LVG Side Walls	UV-absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
	LVS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	13 A	13.5 A	14.3 A	14.5 A
	Optional Outlets (FLA)	6 A			
	Cabinet Nominal Power (W)	132	155	204	264
	Heat Rejected, BTU per Hour	450	529	696	908
Net Weight***		135 Kg (298 lbs)	158 Kg (348 lbs)	199 Kg (438 lbs)	208 Kg (459 lbs)
Shipping Weight***		167 Kg (368 lbs)	202 Kg (445 lbs)	256 Kg (564 lbs)	273 Kg (602 lbs)
Shipping Dimensions, Maximum (W x D x H)***		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum***		1.6 m ³ (56.6 ft ³)	2.0 m ³ (70.6 ft ³)	2.5 m ³ (88.2 ft ³)	3.3 m ³ (116.5 ft ³)

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Additional voltages may be available; contact Esco for ordering information.

***Cabinet only; excludes optional stand.

**General Specifications, Airstream® Vertical Laminar Flow Cabinet, C-Height (Interior Height: 3 ft / 0.9 m)
with Simple Switches Control System**

Stainless Side, Simple Switches		LVS-4CS-F9 2120710	LVS-5CS-F9 2120720	LVS-6CS-F9 2120711	LVS-8CS-F9 2120689
Nominal Size		1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions (W x D x H)	Without Base Stand	1340 x 814 x 1645 mm (52.8" x 32.0" x 64.8")	1645 x 814 x 1645 mm (64.8" x 32.0" x 64.8")	1950 x 814 x 1645 mm (76.8" x 32.0" x 64.8")	2520 x 814 x 1645 mm (99.2" x 32.0" x 64.8")
Internal Work Area, Dimensions (W x D x H)*		1270 x 739 x 905 mm (50.0" x 29.1" x 35.6")	1575 x 739 x 905 (62.0" x 29.1" x 35.6")	1880 x 739 x 905 mm (74.0" x 29.1" x 35.6")	2450 x 739 x 905 mm (96.5" x 29.1" x 35.6")
Internal Work Area, Space		0.8 m ² (8.6 ft ²)	1.0 m ² (10.7 ft ²)	1.3 m ² (14.0 ft ²)	1.6 m ² (17.2 ft ²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1432 m ³ /hr (843 cfm)	1776 m ³ /hr (1045 cfm)	2120 m ³ /hr (1248 cfm)	2762 m ³ /hr (1626 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		52.6 dBA	53.0 dBA	53.2 dBA	59.8 dBA
Fluorescent Lamp Intensity At Zero Ambient		904 Lux (84 foot candles)	894 Lux (83 foot candles)	1062 Lux (99 foot candles)	1100 Lux (8102 foot candles)
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish.			
	LVS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	13.5 A	14.3 A	14.5 A and 8.5 A (2 Power Inlet)	15 A and 9 A (2 Power Inlet)
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	217	304	400	434
	Heat Rejected, BTU per Hour	740	1037	1365	1481
Net Weight***		194 Kg (428 lbs)	244 Kg (538 lbs)	255 Kg (560 lbs)	352 Kg (776 lbs)
Shipping Weight***		243 Kg (536 lbs)	308 Kg (679 lbs)	330 Kg (661 lbs)	455 Kg (1003 lbs)
Shipping Dimensions, Maximum (W x D x H)***		1490 x 900 x 1750 mm (59" x 35" x 69")	1790 x 900 x 1750 mm (70" x 35" x 69")	2070 x 900 x 1750 mm (82" x 35" x 69")	2720 x 950 x 1750 mm (107" x 37" x 69")
Shipping Volume, Maximum***		2.3 m ³ (81 ft ³)	2.8 m ³ (99.6 ft ³)	3.3 m ³ (116.5 ft ³)	4.5 m ³ (158.9 ft ³)

Specifications are subject to change without notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

**Additional voltages may be available; contact Esco for ordering information.

***Cabinet only; excludes optional stand.



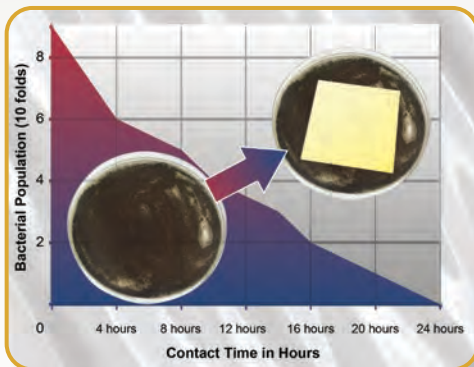
AC Blower



ULPA Filter



Tempered Glass Side Wall



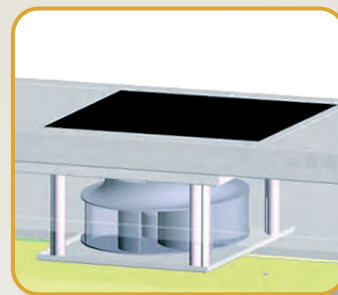
Isocide™ Antimicrobial Powder Coating



Auto-Purge Slots



*OptiMair™ Vertical Laminar Flow Cabinet,
Model ACB-4E_*



Pre-filter



**Sentinel™ Silver
Microprocessor Controller**

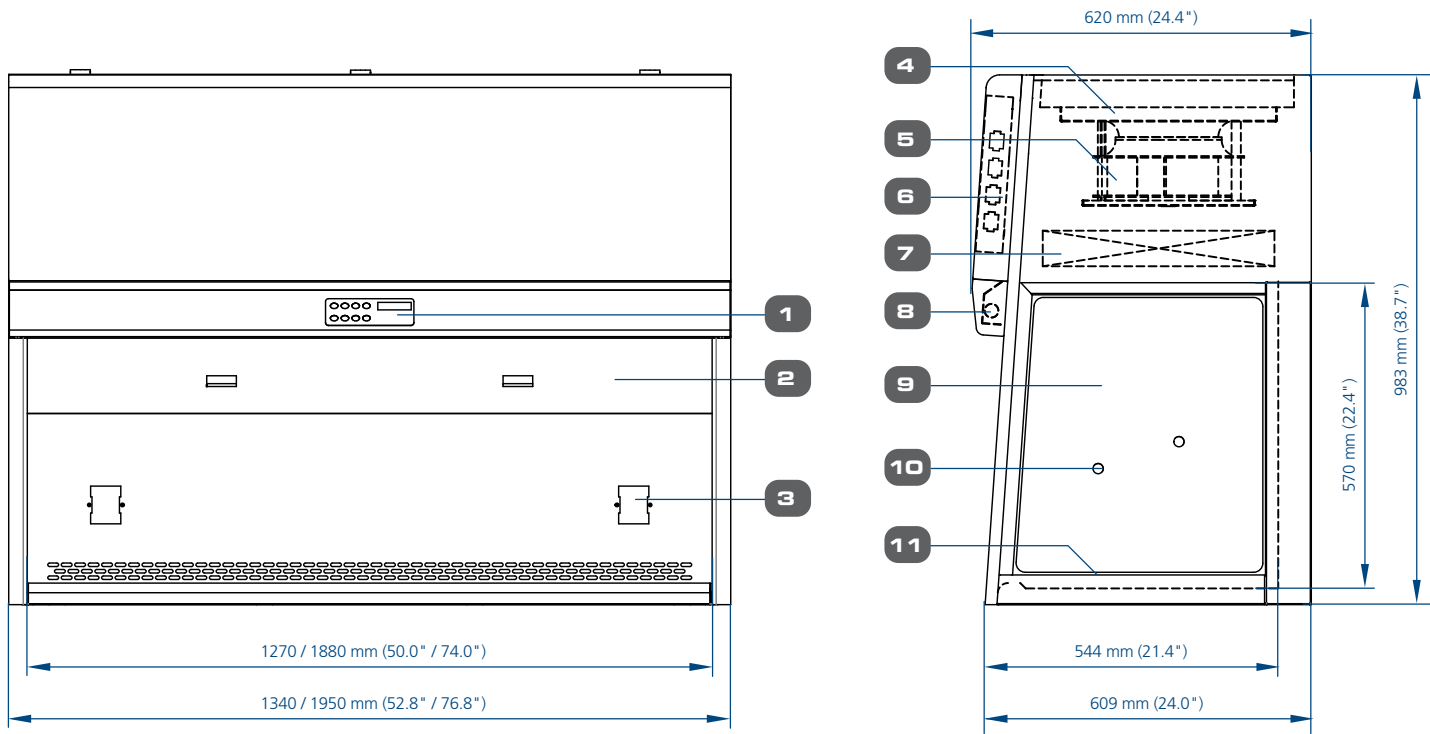


Sliding Sash Window

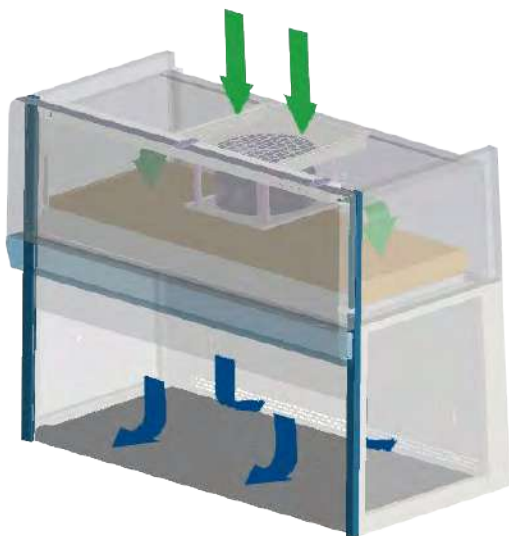


Stainless Steel Work Tray

OptiMair™ Vertical Laminar Flow Engineering Drawing



OptiMair™ Airflow Diagram



- During operation, room air is drawn in from the top of the cabinet through a washable pre-filter with 20% arrestance, trapping larger particles and prolonging the life of the main filter.
- The air is then forced evenly through the ULPA filter resulting in a unidirectional stream of clean air projected vertically over the internal work zone. All airborne contaminants are flushed and diluted, resulting in a particulate free work environment.
- The purified air then leaves the main work chamber across the entire open front of the cabinet and through Auto-Purge™ slots at the back wall of the work zone to eliminate air turbulence and the possibility of dead-air corners in the work zone.
- A nominal filter face velocity of 0.30 m/s (60 fpm) ensures that there is sufficient number of air changes within the enclosed area of the clean bench in order to maintain cleanliness.

- Room air / Inflow air
- ULPA-filtered air

Applications
Mycology and Microbiology
Plant and Mammalian Cell Culture
Clinical Pharmacy and Hospital Laboratory
Non-hazardous biotechnology procedures
Semiconductor Industry

General Specifications, OptiMair™ Vertical Laminar Flow Cabinet				
Model		ACB-4E_		ACB-6E_
Nominal Size		1.2 meter (4')		1.8 meters (6')
External Dimensions (W x D x H)	Without Base Stand	1340 x 620 x 983 mm (52.8" x 24.4" x 38.7")		1950 x 620 x 983 mm (76.8" x 24.4" x 38.7")
	With Optional Base Stand, 711 mm (28") type	1340 x 620 x 1694 mm (52.8" x 24.4" x 66.7")		1950 x 620 x 1694 mm (76.8" x 24.4" x 66.7")
Internal Work Area, Dimensions (W x D x H)		1270 x 524 x 570 mm (50.0" x 20.6" x 22.4")		1880 x 524 x 570 mm (74.0" x 20.6" x 22.4")
Usable Work Zone		0.67 m² (7.2 sq.ft.)		0.99 m² (10.7 sq.ft.)
Initial Airflow Velocity		0.3 m/s (60 fpm)		
Air Volume		566 m³/h (333 cfm)		850 m³/h (500 cfm)
ULPA Filter Typical Efficiency		99.99% for particles size at 0.3 microns		
Sound Emission Per IEST-RP-CC002.2*		<61 dBA		<63 dBA
Fluorescent Lamp Intensity At Zero Ambient		>1000 Lux (74 foot candles)		
Cabinet Construction	Main Body	1.2 mm / 0.05" / 18 gauge electro-galvanized steel with white oven-baked epoxy powder-coated finish		
	Work Zone	1.2 mm (0.05") 18 gauge stainless steel, grade 304, 4B finish		
	Side Walls	Tempered glass		
Electrical Power Rating 1: 220-240 VAC, 50Hz, 1Ø	Cabinet Full Load Amps (FLA)	6.3 A		6.5 A
	Optional Outlets FLA	5 A		
	Cabinet Nominal Power	275 W		285 W
	Cabinet BTU	938		972
Electrical Power Rating 3: 220-240 VAC, 60Hz, 1Ø	Cabinet Full Load Amps (FLA)	1.3 A		1.6 A
	Optional Outlets FLA	5 A		
	Cabinet Nominal Power	198 W		
	Cabinet BTU	676		
Net Weight**		140 kg (308 lbs)		182 kg (400 lbs)
Shipping Weight**		178 kg (392 lbs)		231 kg (508 lbs)
Shipping Dimensions, Maximum (W x D x H)**		1430 x 749.5 x 1233 mm (56.3" x 29.5" x 48.5")		2110 x 749.5 x 1233 mm (83.1" x 29.5" x 48.5")
Shipping Volume, Maximum**		1.32 m³ (46.6 cu.ft)		1.95 m³ (68.9 cu.ft)

*Noise reading in open field condition/ anechoic chamber.

**Cabinet only; excludes optional stand.

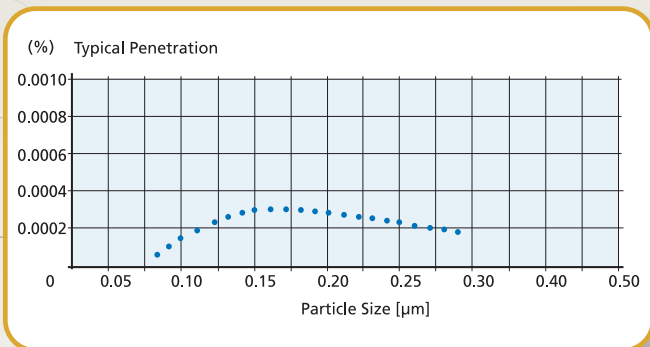
Accessories for OptiMair™ Vertical Laminar Flow Cabinet	
Model	Description
SF-2U	Universal Service Fixture Kit, Suitable for Air/Gas/Vac, Field Installed
SPA-4E0	Support Stand, Adjuster and wheel
IV-XXX-XXX	IV Bar Kit, Includes 6 Hooks, Specify Model When Ordering, Field Installed

Note: 2 Universal (European / American / Japanese / Asia-Pacific) electrical outlets are standard on all OptiMair™ cabinets.

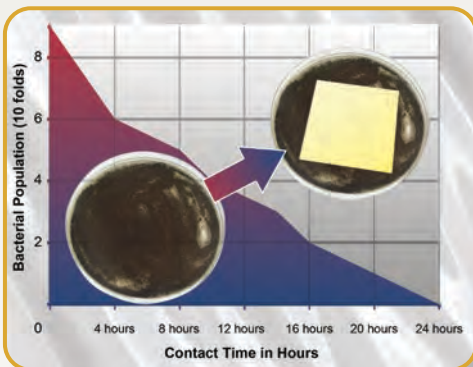
	Cabinet Performance	Air Quality	Filtration	Electrical Safety
Standards Compliance	AS 1386.5, Australia IEST-RP-CC002.2, Worldwide	ISO 14644.1, Class 3, Worldwide IEST-G-CC1001, Worldwide IEST-G-CC1002, Worldwide	EN-1822 (H13), Europe IEST-RP-CC001.3, Worldwide IEST-RP-CC007.1, Worldwide IEST-RP-CC034.1, Worldwide	UL 61010-1, USA CAN/CSA-22.2, No.61010-1 EN 61010-1, Europe IEC 61010-1, Worldwide



AC Blower



ULPA Filter



Isocide™ Antimicrobial Coating



Acrylic Fixed Sash



*Enterprise® Laminar Flow Straddle Units,
Model EQU/06-ESUS*

Standards Compliance	Cabinet Performance	
	IEST-RP-CC002.2, Worldwide	ISO 14644-1 IEST-QC001 IEST-QC002

Enterprise®

Laminar Flow Cabinets

* Type-tested for cross-contamination and product protection using



Magnehelic Gauge



Light and Blower Switch



Acrylic Side Panels



Stainless Steel Table

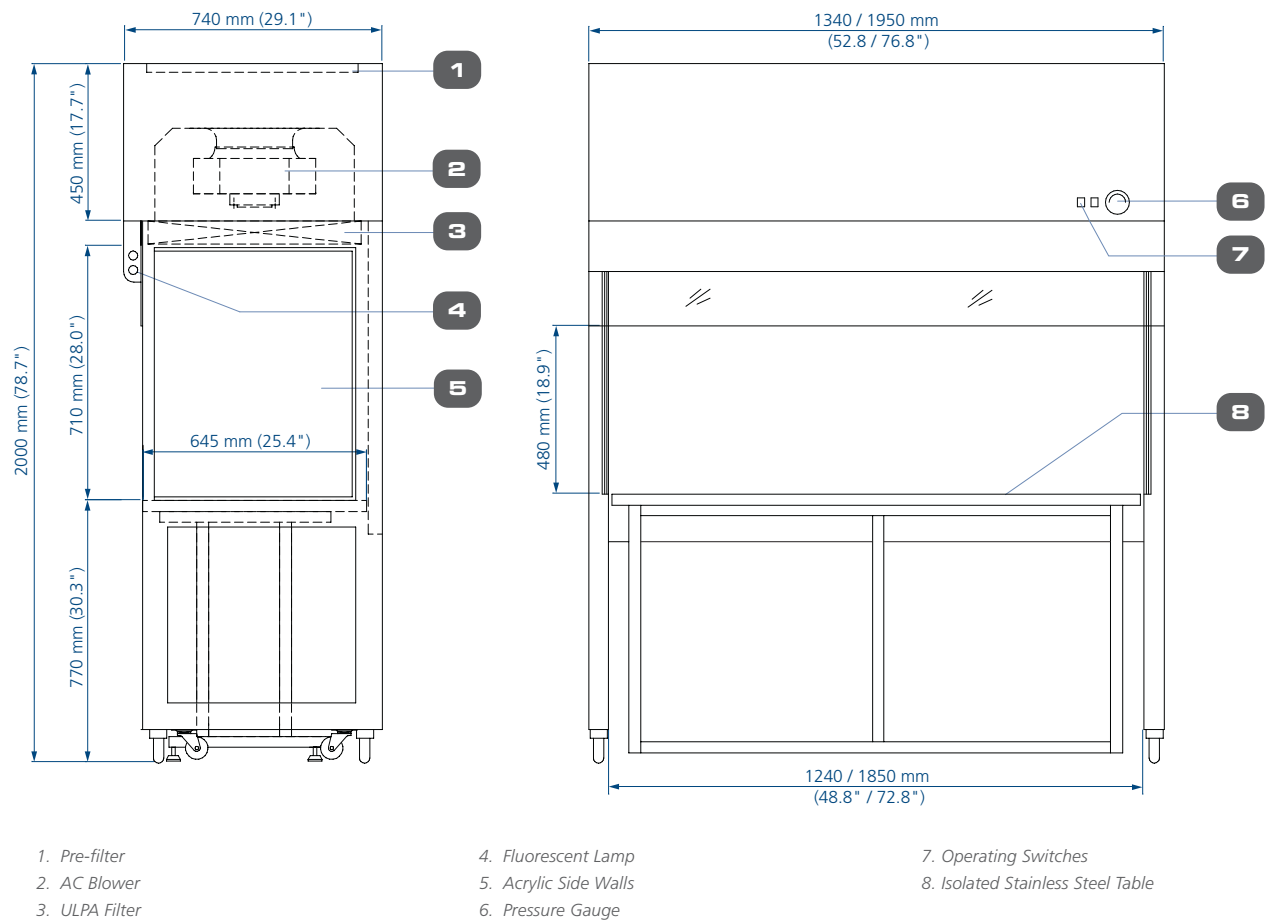


Caster Wheel and Leveling Feet

Air Quality	Filtration	Electrical Safety
EN 1822, Class 4, Worldwide G-CC1001, Worldwide G-CC1002, Worldwide	EN-1822 (H14), Europe IEST-RP-CC001.3, Worldwide IEST-RP-CC007.1, Worldwide IEST-RP-CC034.1, Worldwide	UL 61010-1, USA CAN/CSA-22.2, No.61010-1 EN 61010-1, Europe IEC 61010-1, Worldwide

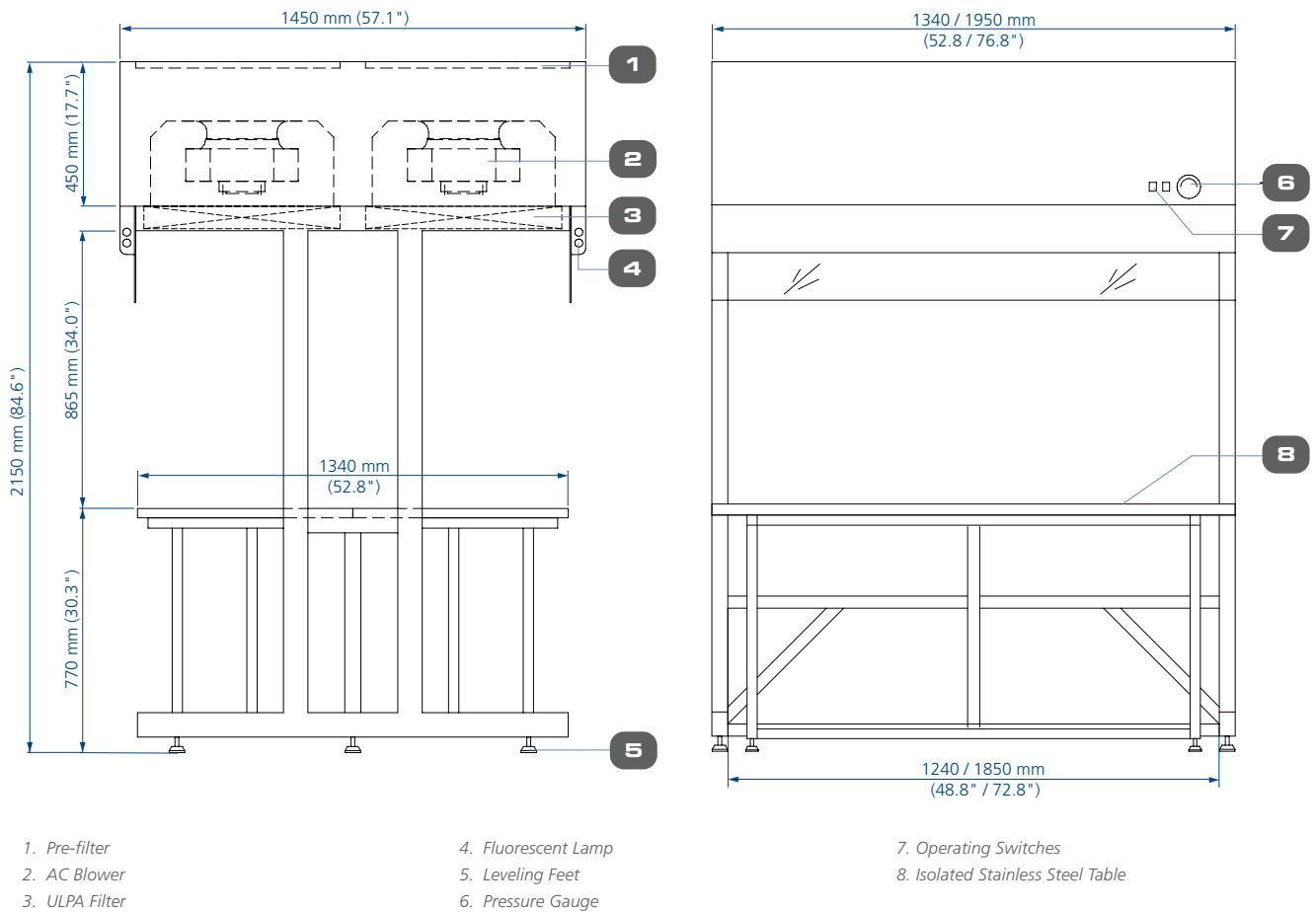
the microbiological testing methods adapted from this biological safety cabinet standard.

Model EQU/0_-ESUS Enterprise Laminar Flow Single Straddle Unit Engineering Drawing



General Specifications, Enterprise® Laminar Flow Single Straddle Unit			
Model		EQU/04-ESUS 2020324	EQU/06-ESUS 2020326
Nominal Size		1.2 meter (4')	1.8 meter (6')
External Dimensions (W x D x H)		1340 x 740 x 2000 mm (52.7" x 29.1" x 78.7")	1950 x 740 x 2000 mm (76.7" x 29.1" x 78.7")
Internal Work Area, Dimensions (W x D x H)		1240 x 645 x 710 mm (48.8" x 25.4" x 28.0")	1850 x 645 x 710 mm (72.8" x 25.4" x 28.0")
Usable Work Zone		1230 x 645 mm (48.4" x 25.4")	1840 x 645 mm (72.4" x 25.4")
Initial Airflow Velocity		Average of 0.45 m/s or 90 fpm (+/- 20%)	
Air Volume		1205 m³/h	1810 m³/h
Pre-Filter		Washable non-woven polyester fibers with 90% arrestance and 20% efficiency	
HEPA Filter Typical Efficiency		99.99% at partial size 0.3 µm	
Sound Emission Per IEST-RP-CC002.2		65 dBA	67 dBA
Fluorescent Lamp Intensity At Zero Ambient		1000 Lux (92.9 foot-candles)	
Cabinet Construction	Main Body	1.5 mm (0.06") electro-galvanised steel with white oven-baked Isocide™ epoxy powder-coated finish.	
	Work Zone	1.2mm (0.05") 18 gauge stainless steel grade 304	
Net Weight		300 kg (661 lbs)	400 kg (881 lbs)
Shipping Weight		350 kg (772 lbs)	450 kg (992 lbs)
Shipping Dimensions, Maximum (W x D x H)		1950 x 950 x 1380 mm 76.8" x 37.4" x 54.3"	2050 x 950 x 1500 mm 80.7" x 37.4" x 59.1"
Electrical 220-240 VAC, 50 Hz, 1ø	Cabinet Full Load Amps (FLA)	1.8 A	4 A
	Cabinet Nominal Power	378 W	628 W
	Cabinet BTU	1290	2143

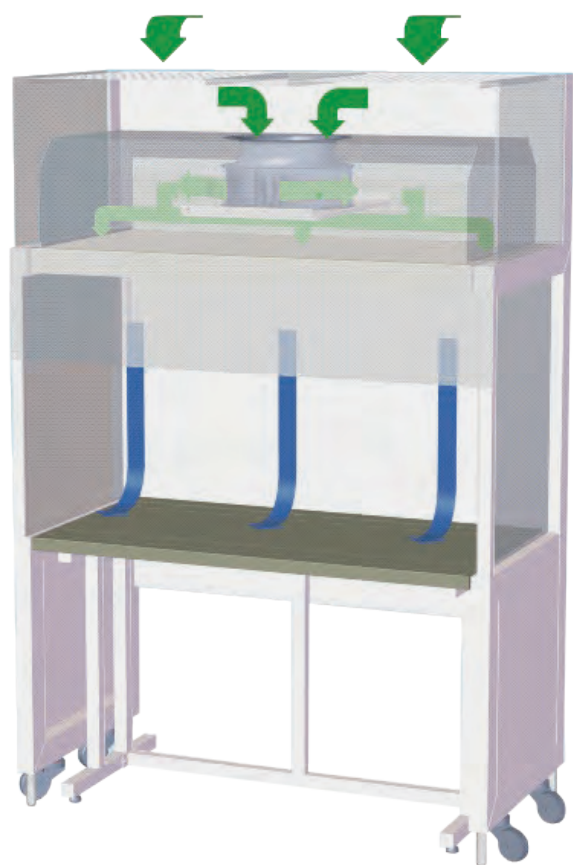
Model EQU/0_-ESUD Enterprise Laminar Flow Double Straddle Unit Engineering Drawing



General Specifications, Enterprise® Laminar Flow Double Straddle Unit

Model		EQU/04-ESUD 2020320	EQU/06-ESUD 2020322
Nominal Size		1.2 meter (4')	1.8 meter (6')
External Dimensions (W x D x H)		1340 x 1450 x 2150 mm (52.7" x 57.1" x 84.6")	1950 x 1450 x 2150 mm (76.7" x 57.1" x 84.6")
Internal Work Area, Dimensions (W x D x H)		1240 x 1340 x 865 mm (48.8" x 52.8" x 34")	1850 x 1340 x 865 mm (72.8" x 52.8" x 34")
Usable Work Zone		1240 x 1340 (48.8" x 52.8")	1850 x 1340 (72.8" x 52.8")
Initial Airflow Velocity		Average of 0.45 m/s or 90 fpm (+/- 20%)	
Air Volume		2410 m³/h	3610 m³/h
Pre-Filter		Washable non-woven polyester fibers with 90% arrestance and 20% efficiency	
HEPA Filter Typical Efficiency		99.99% at partial size 0.3 µm	
Sound Emission Per IEST-RP-CC002.2		65 dBA	67 dBA
Fluorescent Lamp Intensity At Zero Ambient		1000 Lux (92.9 foot-candles)	
Cabinet Construction	Main Body	1.5 mm (0.06") electro-galvanised steel with white oven-baked Isocide™ epoxy powder-coated finish.	
	Work Zone	1.2mm (0.05") 18 gauge stainless steel grade 304	
Net Weight		600 kg (1323 lbs)	800 kg (1764 lbs)
Shipping Weight		650 kg (1433 lbs)	850 kg (1874 lbs)
Shipping Dimensions, Maximum (W x D x H)		1500 x 900 x 2200 mm (59.0" x 35.4" x 86.6")	2100 x 900 x 2200 mm (82.7" x 35.4" x 86.6")
Electrical 220-240 VAC, 50 Hz, 1ø	Cabinet Full Load Amps (FLA)	3.6 A	8 A
	Cabinet Nominal Power	756 W	1256 W
	Cabinet BTU	2580	4286

EQU/0_-ESUS Enterprise Laminar Flow Straddle Unit Airflow Diagram

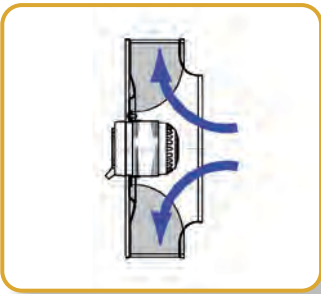


- During operation, room air is drawn through the top of the straddle unit via a washable polyurethane pre-filter with 20% arrestance, trapping larger particles and increasing the life of the main filter.
- The air is then forced evenly through the ULPA filter with >99.999% efficiency, resulting in a unidirectional stream of clean air projected vertically over the internal work zone. All airborne contaminants are flushed and diluted, resulting in a particulate-free work environment.
- The purified air then leaves the storage area across the entire open front of the straddle unit.
- A nominal filter face velocity of 0.45 m/s (90 fpm) ensures that there is a sufficient number of air changes within the enclosed area of the straddle unit in order to maintain cleanliness.

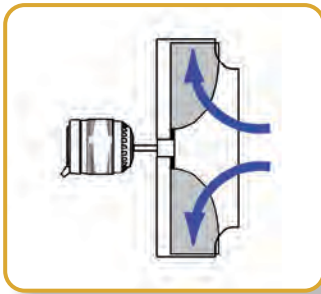
- Room air / Inflow air
- ULPA-filtered air

Esco Centrifugal Fan with External Rotor Motor vs. Conventional Fan with Standard Motor

- Esco cabinets use German made ebm-papst® permanently lubricated, centrifugal motor/blowers with external rotor designs.
- Integrated blades narrow the profile and eliminate need for a motor shaft.
- Motors are selected for energy efficiency, compact design, and flat profile. The completely integrated assembly optimizes motor cooling.
- All rotating parts are unitized and balanced for smooth, quiet, vibration-free operation.



Esco Centrifugal Fan
with External Rotor Motor



Conventional Fan with Standard Motor

Applications
Cleanrooms, Electronics Assembly, Semiconductors, Aerospace, Pharmaceutical, Medical Devices Industries
Mycology and Food Microbiology
Plant and Mammalian Cell Culture
Clinical Pharmacy and Hospital Use
Applications benefiting from the isolated work surface frame design which virtually eliminates vibration

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